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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,120	09/19/2005	Bernard Smeets	2380-889	7035
23117 7590 12/01/2009 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			EXAMINER	
			PYZOCHA, MICHAEL J	
ARLINGTON	ON, VA 22203		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/533 120 SMEETS ET AL. Office Action Summary Examiner Art Unit MICHAEL PYZOCHA 2437 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 October 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 47-50.52 and 54-75 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 47-50,52 and 54-75 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

1. Claims 47-50, 52 and 54-75 are pending.

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/13/2009 has been entered.

Information Disclosure Statement

 The IDS filed 04/29/2005 was considered by the examiner on 02/09/2009 and a signed copy was included with the action mailed 02/12/2009.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 47, 48, 52, 54, 58-61, 66, 67, 69-71, 73 and 75 are rejected under 35
 U.S.C. 103(a) as being unpatentable over Kocher et al. (US 20020099948) in view of Richards (US 20010054147) and further in view of Knapen (US 20030053629).

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As per claims 47, 66 and 70, Kocher et al. discloses a tamper-resistant electronic circuit for implementation in a device, said tamper-resistant electronic circuit comprising: a storage device for tamper-resistantly storing, during manufacture of the tamperresistant electronic circuit, a random secret not accessible over any external circuit interface to the tamper-resistant electronic circuit (see paragraphs [0078], [0081], [0104] and claim 1); trigger data generating circuitry for, during configuration of the tamperresistant electronic circuit, generating trigger data using the random secret and devicespecific security data that is different from the random secret; a receiver for, during operation of the configured tamper-resistant electronic circuit by a user, receiving external to the tamper-resistant electronic circuit from the user via an external circuit interface the trigger data (see paragraph [0078] and claim 1 steps (a)-(c) where the group verification result is the trigger data); a cryptographic processing engine, in response to the externally received trigger data from the user, for performing cryptographic processing at least partly in response to said stored secret and the externally received trigger data from the user to generate an instance of the devicespecific security data internally confined within said electronic circuit during usage of said device; and electronic circuitry, connected to the cryptographic processing engine and configured to perform a security-related operation in response to said internallyconfined, device-specific security data (see paragraph [0078] and claims 1 step (c)).

Kocher et al. fails to explicitly disclose outputting the trigger data and that the security data is temporary.

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However, Richards teaches outputting triggering data (see paragraph [0035]) and Knapen teaches generating temporary keys based on received triggering data (see Abstract and paragraphs [0017] and [0021]-[0023]).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to output the trigging data and to create temporary security data in the Kocher et al. system.

Motivation to do so would have been to authorize the enablement of an action (see Richards paragraph [0035]) and as recognized by one of ordinary skill in the art to use temporary keys to limit the ability of attackers to break the encryption.

As per claims 48, 67 and 71, the modified Kocher et al., Richards and Knapen system discloses said device is a network device and said operation is related to at least one of data confidentiality, data integrity, authentication, authorization and non-repudiation in network communication (see Kocher et al. Abstract).

As per claims 52, 54, 69, 73 and 75, the modified Kocher et al., Richards and Knapen system discloses creating and using triggering data based from cryptographic functions (see Kocher et al. paragraph [0078] and Richards paragraph [0035]).

As per claims 58-61, the modified Kocher et al., Richards and Knapen system discloses performing additional cryptographic processing based on the internally-confined device-specific security data and external data to generate further security data and performing security-related operations in response to said security data where the system is configured to generate and use certain encryption keys (see Kocher et al. Abstract and paragraphs [0051], [0062]).

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 Claims 49, 50, 68 and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Kocher et al., Richards and Knapen system as applied to claims 47, 66 and 70 above, and further in view of Venkatesan et al. (US 20040001605).

As per claims 49, 50, 68 and 72, the modified Kocher et al., Richards and Knapen system fails to explicitly disclose that the device is configured for producing digital content by marking (by embedding a fingerprint in) said digital content based on the internally-confined temporal device-specific security data.

However, Venkatesan et al. teaches marking produced content with specific security information (see paragraph [0053]).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the device specific security information of the modified Kocher et al., Richards and Knapen system to watermark produced content.

Motivation to do so would have been to uniquely identify the content as original (see Venkatesan et al. paragraph [0053]).

 Claims 55-57 and 74 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Kocher et al., Richards and Knapen system as applied to claims 47 and 73 above, and further in view of Beatson (US 20030056100).

As per claims 55-57 and 74, the modified Kocher et al., Richards and Knapen system disclose authenticating a manufacturer and providing information to the manufacturer (see Kocher et al. paragraphs [0081] and [0104]), but fails to disclose allowing/preventing access to the security information based on an access code.

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However, Beatson teaches and access code to prevent/allow access to a device (see Beatson paragraph [0084]).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to require an access code to use the device of the modified Kocher et al., Richards and Knapen system.

Motivation, as recognized by one of ordinary skill in the art, to do so would have been to prevent unauthorized access to the security data.

 Claims 62-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Kocher et al., Richards and Knapen system as applied to claim 47 above, and further in view of Hopkins et al. (EP 1081891).

As per claims 62-64, the modified Kocher et al., Richards and Knapen system fails to explicitly disclose generating an internally-confined private key based at least partially on said stored secret and using the private key and corresponding public key to generate a shared key.

However, Hopkins et al. teaches such key generation/exchange (see paragraphs [0039] and [0046] through [0053]).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to generate and exchange keys in the modified Kocher et al., Richards and Knapen system.

Motivation to do so would have been to set-up a secure communications session (see Hopkins et al. paragraphs [0039] and [0046] through [0053]).

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 Claim 65 is rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Kocher et al., Richards and Knapen system as applied to claim 47 above, in view of Xiao et al. (WO 0077974) and further in view of Matyas, Jr. et al. (US 6687375).

As per claim 65, the modified Kocher et al., Richards and Knapen system fails to disclose generating a chain of keys by hashing a previous key with an identity.

However, Xiao et al. teaches chaining based off values of keys (see page 9 lines 1-10) and Matyas, Jr. et al. teaches creating a key by hashing a key with identity information (see FIG. 4 and column 9 lines 3-17).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to create a chain of user dependent keys in the modified Kocher et al., Richards and Knapen system.

Motivation to do so would have been to create a chain of trust (see Xiao et al. page 9) and to create a user specific key (see Matyas, Jr. et al. column 9 lines 3-17).

Response to Arguments

Applicant's arguments (see pages 13-16) with respect to claims 47-50, 52 and
 54-75 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL PYZOCHA whose telephone number is

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(571)272-3875. The examiner can normally be reached on Monday-Thursday, 7:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Pyzocha/

Examiner, Art Unit 2437